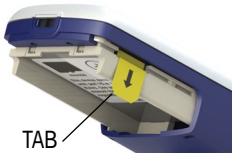
Operating Instructions

RAININ
Pipetting 360°

Quick Start Guide

E4™ XLS™ Electronic Pipette

Getting Started



1. Slide open the main battery compartment cover.
2. Pull out the tab that isolates the auxiliary coin cell battery.
3. Place the battery as shown here.

4. Replace the cover. The unit will turn on and remind you to set local time. Press the left button (soft key) to clear the notice.
5. When the E4 XLS switches on the start-up screen will appear briefly.

   (Pressing one of the soft keys will always switch on the E4 XLS.)

6. Plug in the wall power supply and charge the battery for at least 30 minutes before using.

   For full charge, plug in for 90 minutes.

Controls and Indicators

1. Display
2. Soft Keys
3. Joystick
4. Tip Ejector

METTLER TOLEDO

Display

1. Current menu or mode
2. Menu level, current operation or page
3. Time
4. Battery charge indicator
5. Carousel of modes
6. Joystick navigation icon
7. Soft key functions

Basic navigation

Navigation on E4 XLS is done using the soft keys and the joystick control. The functions of the soft keys and joystick control change according to the menu or mode displayed. In the image, the left soft key function has the function RESET.

Functions are shown in the display above each soft key, and the available joystick controls are highlighted in the navigation icon.

Soft Key Functions

LEFT SOFT KEY

MAIN: Displays the **Main Menu**

CONT: Continues current pipetting operation

DONE: Exits **Settings** and **Options** screens

RESET: Empties tip, resets operation to aspirate

RETURN: Exits a **Help** screen

PREV: Returns to previous mode

RIGHT SOFT KEY

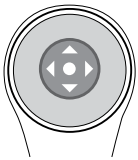
OPTIONS: Available mode options

CANCEL: Cancels, exits current action

HELP: Operational information

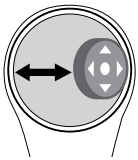
Mode- and setting-specific functions

Joystick Controls



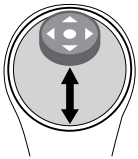
Press and click the center button – ●

- Access menu items
- Edit settings and options
- Choose and save selections



Move joystick left or right – ◄ or ►

- Navigate between menu items and pages
- Access **Settings** screens
- Make coarse setting value adjustments



Move joystick up or down – ▲ or ▼

- Aspirate and dispense
- Navigate between settings and options
- Make fine setting value adjustments

Application Guide What do you want to do?

Function	Mode	Icon	Comment	Level I	Level II
Basic Pipetting	BASIC			✓	
Dispense multiple aliquots	MULTI-DISP			✓	
Pipette and Mix	ADVANCED		OPTIONS > MIX	✓	
Program a sequence of different pipetting steps	ADVANCED		OPTIONS > VOL. SEQ.	✓	
Pipetting fixed volumes	ADVANCED		OPTIONS > FIXED VOL	✓	
Full Manual control	MANUAL			✓	
Reverse Mode Pipetting	REVERSE				✓
Change Instrument Settings	SETUP		See Settings below	✓	
Dilute samples in the pipette tip	DILUTE				✓
Titrate via measured fine-control dispensing	TITRATE				✓
Check Service Status	SERVICE		Service re-cords (locked)		✓
Move from Level I to Level II	LEVEL II			✓	
Move from Level II to Level I	LEVEL I				✓

Instrument Settings – SETUP Mode

Use UP/DOWN arrow to scroll through options, ● or ► to select, ◄, ►▲ or ▼ to change value, ● or DONE to save.

Simple Operation

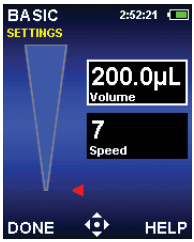
Basic Mode: For basic pipetting: set a volume and a speed for aspirate/dispense.

1. In the **Main Menu**, **Level I,** move thumbstick ◀ or ▶ to select **BASIC**.
2. ● or ▲ or ▼ to access **Basic Mode**.
3. ▶ to edit settings.
4. ▲ or ▼ to select volume or speed.
5. ● or ▶ to edit setting.
6. ◀ or ▶ for fast (coarse) adjustment, ▲ or ▼ for slow (fine) adjustment. Hold thumbstick in place for fast scroll.
7. **DONE** or ● to save.
8. **DONE** or ◀ to exit **Settings** screen.
9. Mount a disposable tip.
10. Place tip into the sample.
11. ▲ or ● to aspirate.
12. ▼ or ● to dispense.
13. After dispense, ▼ for manual blowout.
14. **RESET** empties tip and returns to aspirate.
15. **HELP** for more information.
16. **MAIN** to return to **Main Menu**.

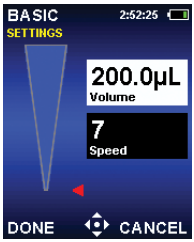
Step **1**

Step **2**

Step **3**

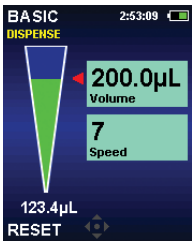


Step **4**



Step **11**

Step **12**

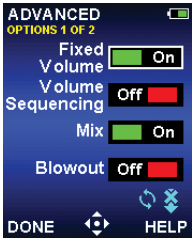


Selecting Mode Options

1. In the **Main Level I** or **Level II menus**, ◀ or ▶ to select **ADVANCED**, **MULTI-DISP**, **MANUAL**, **REVERSE**, **DILUTE** or **TITRATE**.
2. Select **OPTIONS**.
3. ▲ or ▼ to select option.
4. ● or ▶ to turn option on or off.
5. **DONE** to save and exit.

Step **2**

Step **3**



This Quick Start Guide shows pipette controls, navigation and simple operation. For more information see User Manual, Cat. No. 9920-396.

Rainin, E4, XLS are trademarks of Rainin Instrument, LLC.

Rainin Instrument, LLC.
7500 Edgewater Drive
Oakland, CA 94621
Sales +1 510 564 1600
Service +1 510 564 1600

www.mt.com/rainin

Subject to technical changes
© 2011 Rainin Instrument LLC
Printed in USA 9920-397 Rev B

a METTLER TOLEDO Company